

Nu-Metrics Traffic Analyzer Study

Computer Generated Summary Report City: between Main St. and speed hump

**Street: Burke Station Rd.
#2 Red**

A study of vehicle traffic was conducted with HI-STAR unit number 1039. The study was done in the South Bound lane on Burke Station Rd. using counter #2 Red as shown on attached drawing. The counter was placed between Main St. and the first speed hump. The study began on 01/20/2004 at 12:00 PM and concluded on 01/23/2004 at 12:00 PM, lasting a total of 72 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 10,900 vehicles passed through the location with a peak volume of 505 on 01/20/2004 at 05:00 PM and a minimum volume of 4 on 01/21/2004 at 03:00 AM. The AADT Count for this study was 3,633.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	169	684	2811	4463	1999	358	90

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 27 mph with 65.3 percent exceeding the posted speed of 25 mph. The HI-STAR found 4.24 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this study was 25 mph and the 85th percentile was 32.15 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
10129	349	70	18	6	2	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 10,478 which represents 99.10 percent of the total classified vehicles. The number of Small Trucks in the study was 70 which represents 0.70 percent of the total classified vehicles. The number of Trucks/Buses in the study was 18 which represents 0.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 8 which represents 0.10 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 01/20/2004 at 05:00 PM the average headway between the vehicles was 7.11 seconds. The slowest traffic period was on 01/21/2004 at 03:00 AM. During this slowest period, the average headway was 720.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 21 and 44 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.